Team Contest

You are a staff member of a university. Your university is registering several teams to participate in a programming contest. The programming contest is participated by teams of three programmers.

In your university, there are N eligible programmers, numbered from 0 to $N-1$. For each i such that $0 \leq i \leq N-1$, programmer i has a skill level of $L[i]$. The skill level of a team consisting of programmer i, j, and k is $\min(L[i], L[j], L[k]) + \max(L[i], L[j], L[k])$.

You want to only register teams with a skill level of strictly more than K. Each programmer may only be assigned to at most one registered team. You want to know the maximum number of teams you can register.

Implementation Details

You should implement the following procedure:

```
int maximum_teams(int N, int K, int[] L);
```

- N: the number of programmers.
- K: the skill level limit of the registered teams.
- L: an array of length N describing the skill level of the programmers.
- This procedure should return the maximum number of teams you can register.
- This procedure is called exactly once.

Examples

Example 1

Consider the following call:

```
maximum_teams(8, 6, [5, 4, 6, 2, 3, 2, 1, 1])
```

You can register a team with programmer 0, 3, and 5 (with skill levels 5, 2, 2 respectively) and a team with programmer 1, 2, and 4 (with skill levels 4, 6, 3 respectively). There is no way to register more than two teams. Therefore, the procedure `maximum_teams` should return 2.

Constraints

- $1 \leq N \leq 100\ 000$
- $1 \leq K \leq 10^8$
- $1 \leq A[i] \leq 10^8$ (for each i such that $0 \leq i \leq N-1$)

Subtasks

1. (6 points) $N \leq 3$
2. (12 points) $N \leq 8$
3. (37 points) $N \leq 1000$
4. (45 points) No additional constraints.

Sample Grader

The sample grader reads the input in the following format:

- line 1: $N\ K$
- line 2: $L[0]\ L[1]\ \ldots\ L[N-1]$

The sample grader prints your answer in the following format:

- line 1: the return value of `maximum_teams`